**3.c.1-3**

**Group Members: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**atmosphere and Meteorology Project**

**General Directions**: Your group will be given three of the Virginia Beach Objectives related to this unit. Your group will be responsible for **researching the objectives, creating a lesson and developing an activity** to teach the three objectives you have been assigned to the rest of the class. Guiding questions have been provided to help you cover each objective. You will be using a PowerPoint slideshow to use as a visual aid to teach the lesson.

**Step 1**: Research your objective using books and resources provided (Databases located at <https://destiny.vbcps.com> and books). Take notes. Be sure to answer the guiding questions in a way that you can easily explain to your classmates. Diagrams, charts and graphs are great tools to visually interpret information. Collect citation information and save to a location you can access (jump drive, H Drive or SharePoint).

**Step 2:** Organize your information so that you can easily share it with others. Develop a PowerPoint presentation with your group to cover your topic. All group members must contribute to the PPT and participate in the presentation. Use the following format as a template for your PowerPoint.

PowerPoint format :

Slide 1-State Key Concept/Topic

Slide 2:  State objective

Slide 3-4:  Guiding Question with 3-5 bullet points

Slide 5:  State Objective

Slide 6-7:  Guiding Question with 3-5 bullet points

Slide 8:  State Objective

Slides 9-10:  Guiding Question with 3-5 bullet points

Slide 11:  Bibliography

Relevant photos/pictures throughout

**Step 3:** Develop activity to be used by classmates during lesson. All group members must contribute to the activity.

Matching: Develop a crossword puzzle using the online crossword puzzle maker at Discovery Education. The puzzle must include 10 clues.

**Step 4:** As a group practice teaching your lesson. Remember to use the PowerPoint as a guide but do not read it to the class

**ES3.c Weather Components**

**3.c.1 Differentiate between forms of condensation including clouds, dew, frost, and fog and conditions necessary for their formation. Include condensation nuclei.**

*Define the following: clouds, dew, frost, and fog and how they form.*

*What are types of condensation nuclei?*

*Why are condensation nuclei important to cloud formation?*

**3.c.2 Relate the major types of precipitation to conditions under which they occur.**

*What are the major types of precipitation?*

*How does each of the major types of precipitation form?*

*How is the state of the atmospheric conditions important to the formation of each type of precipitation?*

**3.c.3 Explain that winds are created by uneven heat distribution at the Earth’s surface and are modified by the rotation of the Earth (Coriolis effect).**

*What creates wind on the surface of the Earth?*

*Is the surface of the Earth heated evenly? What is the importance of this?*

*How does the Coriolis Effect impact global winds?*

*What diagram can we use to demonstrate this?*

**Fast Facts:**

-Energy transfer between Earth’s surface and the atmosphere creates the weather.